

INPUT SET: S2778.raw

This Raw Listing contains the General Information Section and up to the first 5 pages.

SEQUENCE LISTING

3 (1) General Information:

4

5 (i) APPLICANT: Gregory, Richard J.
6 Wills, Ken N.
7 Maneval, Daniel C.

8

9 (ii) TITLE OF INVENTION: Recombinant Adenoviral Vector and
10 Methods of Use

11

12 (iii) NUMBER OF SEQUENCES: 9

13

14 (iv) CORRESPONDENCE ADDRESS:
15 (A) ADDRESSEE: Campbell and Flores
16 (B) STREET: 4370 La Jolla Village Drive, Suite 700
17 (C) CITY: San Diego
18 (D) STATE: California
19 (E) COUNTRY: USA
20 (F) ZIP: 92122

21

22 (v) COMPUTER READABLE FORM:
23 (A) MEDIUM TYPE: Floppy disk
24 (B) COMPUTER: IBM PC compatible
25 (C) OPERATING SYSTEM: PC-DOS/MS-DOS
26 (D) SOFTWARE: PatentIn Release #1.0, Version #1.25

27

28 (vi) CURRENT APPLICATION DATA:
29 (A) APPLICATION NUMBER: US 08/328,673
30 (B) FILING DATE: 25-OCT-1994
31 (C) CLASSIFICATION:

32

33 (vii) PRIOR APPLICATION DATA:
34 (A) APPLICATION NUMBER: US 08/233,777
35 (B) FILING DATE: 19-MAY-1994

36

37 (vii) PRIOR APPLICATION DATA:
38 (A) APPLICATION NUMBER: US 08/142,669
39 (B) FILING DATE: 25-OCT-1993

40

41 (viii) ATTORNEY/AGENT INFORMATION:
42 (A) NAME: Campbell, Cathryn A.
43 (B) REGISTRATION NUMBER: 31,815
44 (C) REFERENCE/DOCKET NUMBER: P-CJ 1192

45

46 (ix) TELECOMMUNICATION INFORMATION:

**RAW SEQUENCE LISTING
PATENT APPLICATION US/08/328,673**DATE: 03/16/95
TIME: 18:23:04**INPUT SET: S2778.raw**

47 (A) TELEPHONE: (619) 535-9001
48 (B) TELEFAX: (619) 535-8949

49

50

51 (2) INFORMATION FOR SEQ ID NO:1:

52

53 (i) SEQUENCE CHARACTERISTICS:
54 (A) LENGTH: 25 base pairs
55 (B) TYPE: nucleic acid
56 (C) STRANDEDNESS: single
57 (D) TOPOLOGY: linear

58

59

60

61 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1:

62

63 CGCCACCGAG GGACCTGAGC GAGTC

25

64

65 (2) INFORMATION FOR SEQ ID NO:2:

66

67 (i) SEQUENCE CHARACTERISTICS:
68 (A) LENGTH: 20 base pairs
69 (B) TYPE: nucleic acid
70 (C) STRANDEDNESS: single
71 (D) TOPOLOGY: linear

72

73

74

75 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2:

76

77 TTCTGGGAAG GGACAGAAGA

20

78

79 (2) INFORMATION FOR SEQ ID NO:3:

80

81 (i) SEQUENCE CHARACTERISTICS:
82 (A) LENGTH: 25 base pairs
83 (B) TYPE: nucleic acid
84 (C) STRANDEDNESS: single
85 (D) TOPOLOGY: linear

86

87

88

89 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:3:

90

91 CGCGCTAGCT CTGCCCAAA GAGCT

25

92

93 (2) INFORMATION FOR SEQ ID NO:4:

94

95 (i) SEQUENCE CHARACTERISTICS:
96 (A) LENGTH: 39 base pairs
97 (B) TYPE: nucleic acid
98 (C) STRANDEDNESS: single
99 (D) TOPOLOGY: linear

INPUT SET: S2778.raw

100
101
102
103 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:4:
104
105 CGCGGTACCC TCGAGTCTAG ATATTGCCAG TGGTGGAAG 39
106
107 (2) INFORMATION FOR SEQ ID NO:5:
108
109 (i) SEQUENCE CHARACTERISTICS:
110 (A) LENGTH: 35 base pairs
111 (B) TYPE: nucleic acid
112 (C) STRANDEDNESS: single
113 (D) TOPOLOGY: linear
114
115
116
117 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:5:
118
119 CGTGCGGCCG CTGGAGGACT TTGAGGATGT CTGTC 35
120
121 (2) INFORMATION FOR SEQ ID NO:6:
122
123 (i) SEQUENCE CHARACTERISTICS:
124 (A) LENGTH: 33 base pairs
125 (B) TYPE: nucleic acid
126 (C) STRANDEDNESS: single
127 (D) TOPOLOGY: linear
128
129
130
131 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:6:
132
133 CGCTCTAGAG AGACCAGTTA GGAAGTTTC GCA 33
134
135 (2) INFORMATION FOR SEQ ID NO:7:
136
137 (i) SEQUENCE CHARACTERISTICS:
138 (A) LENGTH: 2995 base pairs
139 (B) TYPE: nucleic acid
140 (C) STRANDEDNESS: single
141 (D) TOPOLOGY: linear
142
143
144 (ix) FEATURE:
145 (A) NAME/KEY: CDS
146 (B) LOCATION: 139..2922
147
148
149 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:7:
150
151 TTCCGGTTTT TCTCAGGGGA CGTTGAAATT ATTTTTGTAA CGGGAGTCGG GAGAGGACGG 60
152

**RAW SEQUENCE LISTING
PATENT APPLICATION US/08/328,673**

DATE: 03/16/95
TIME: 18:23:15

INPUT SET: S2778.raw

| | | |
|-----|---|-----|
| 153 | GGCGTGCCCC GCGTGCAGC GCGTCGTCTT CCCCCGGCGCT CCTCCACAGC TCGCTGGCTC | 120 |
| 154 | | |
| 155 | CCGCCGCGGA AAGGCAGTC ATG CCG CCC AAA ACC CCC CGA AAA ACG GCC GCC | 171 |
| 156 | Met Pro Pro Lys Thr Pro Arg Lys Thr Ala Ala | |
| 157 | 1 5 10 | |
| 158 | | |
| 159 | ACC GCC GCC GCT GCC GCC GCG GAA CCC CCG GCA CCG CCG CCG CCG CCC | 219 |
| 160 | Thr Ala Ala Ala Ala Ala Glu Pro Pro Ala Pro Pro Pro Pro | |
| 161 | 15 20 25 | |
| 162 | | |
| 163 | CCT CCT GAG GAG GAC CCA GAG CAG GAC AGC GGC CCG GAG GAC CTG CCT | 267 |
| 164 | Pro Pro Glu Glu Asp Pro Glu Gln Asp Ser Gly Pro Glu Asp Leu Pro | |
| 165 | 30 35 40 | |
| 166 | | |
| 167 | CTC GTC AGG CTT GAG TTT GAA GAA ACA GAA GAA CCT GAT TTT ACT GCA | 315 |
| 168 | Leu Val Arg Leu Glu Phe Glu Glu Thr Glu Glu Pro Asp Phe Thr Ala | |
| 169 | 45 50 55 | |
| 170 | | |
| 171 | TTA TGT CAG AAA TTA AAG ATA CCA GAT CAT GTC AGA GAG AGA GCT TGG | 363 |
| 172 | Leu Cys Gln Lys Leu Lys Ile Pro Asp His Val Arg Glu Arg Ala Trp | |
| 173 | 60 65 70 75 | |
| 174 | | |
| 175 | TTA ACT TGG GAG AAA GTT TCA TCT GTG GAT GGA GTA TTG GGA GGT TAT | 411 |
| 176 | Leu Thr Trp Glu Lys Val Ser Ser Val Asp Gly Val Leu Gly Gly Tyr | |
| 177 | 80 85 90 | |
| 178 | | |
| 179 | ATT CAA AAG AAA AAG GAA CTG TGG GGA ATC TGT ATC TTT ATT GCA GCA | 459 |
| 180 | Ile Gln Lys Lys Glu Leu Trp Gly Ile Cys Ile Phe Ile Ala Ala | |
| 181 | 95 100 105 | |
| 182 | | |
| 183 | GTT GAC CTA GAT GAG ATG TCG TTC ACT TTT ACT GAG CTA CAG AAA AAC | 507 |
| 184 | Val Asp Leu Asp Glu Met Ser Phe Thr Phe Thr Glu Leu Gln Lys Asn | |
| 185 | 110 115 120 | |
| 186 | | |
| 187 | ATA GAA ATC AGT GTC CAT AAA TTC TTT AAC TTA CTA AAA GAA ATT GAT | 555 |
| 188 | Ile Glu Ile Ser Val His Lys Phe Phe Asn Leu Leu Lys Glu Ile Asp | |
| 189 | 125 130 135 | |
| 190 | | |
| 191 | ACC AGT ACC AAA GTT GAT AAT GCT ATG TCA AGA CTG TTG AAG AAG TAT | 603 |
| 192 | Thr Ser Thr Lys Val Asp Asn Ala Met Ser Arg Leu Leu Lys Lys Tyr | |
| 193 | 140 145 150 155 | |
| 194 | | |
| 195 | GAT GTA TTG TTT GCA CTC TTC AGC AAA TTG GAA AGG ACA TGT GAA CTT | 651 |
| 196 | Asp Val Leu Phe Ala Leu Phe Ser Lys Leu Glu Arg Thr Cys Glu Leu | |
| 197 | 160 165 170 | |
| 198 | | |
| 199 | ATA TAT TTG ACA CAA CCC AGC AGT TCG ATA TCT ACT GAA ATA AAT TCT | 699 |
| 200 | Ile Tyr Leu Thr Gln Pro Ser Ser Ser Ile Ser Thr Glu Ile Asn Ser | |
| 201 | 175 180 185 | |
| 202 | | |
| 203 | GCA TTG GTG CTA AAA GTT TCT TGG ATC ACA TTT TTA TTA GCT AAA GGG | 747 |
| 204 | Ala Leu Val Leu Lys Val Ser Trp Ile Thr Phe Leu Leu Ala Lys Gly | |
| 205 | 190 195 200 | |

**RAW SEQUENCE LISTING
PATENT APPLICATION US/08/328,673**

DATE: 03/16/95
TIME: 18:23:20

INPUT SET: S2778.raw

| | | |
|-----|---|------|
| 206 | GAA GTA TTA CAA ATG GAA GAT GAT CTG GTG ATT TCA TTT CAG TTA ATG | 795 |
| 207 | Glu Val Leu Gln Met Glu Asp Asp Leu Val Ile Ser Phe Gln Leu Met | |
| 208 | 205 210 215 | |
| 210 | | |
| 211 | CTA TGT GTC CTT GAC TAT TTT ATT AAA CTC TCA CCT CCC ATG TTG CTC | 843 |
| 212 | Leu Cys Val Leu Asp Tyr Phe Ile Lys Leu Ser Pro Pro Met Leu Leu | |
| 213 | 220 225 230 235 | |
| 214 | | |
| 215 | AAA GAA CCA TAT AAA ACA GCT GTT ATA CCC ATT AAT GGT TCA CCT CGA | 891 |
| 216 | Lys Glu Pro Tyr Lys Thr Ala Val Ile Pro Ile Asn Gly Ser Pro Arg | |
| 217 | 240 245 250 | |
| 218 | | |
| 219 | ACA CCC AGG CGA GGT CAG AAC AGG AGT GCA CGG ATA GCA AAA CAA CTA | 939 |
| 220 | Thr Pro Arg Arg Gly Gln Asn Arg Ser Ala Arg Ile Ala Lys Gln Leu | |
| 221 | 255 260 265 | |
| 222 | | |
| 223 | GAA AAT GAT ACA AGA ATT ATT GAA GTT CTC TGT AAA GAA CAT GAA TGT | 987 |
| 224 | Glu Asn Asp Thr Arg Ile Ile Glu Val Leu Cys Lys Glu His Glu Cys | |
| 225 | 270 275 280 | |
| 226 | | |
| 227 | AAT ATA GAT GAG GTG AAA AAT GTT TAT TTC AAA AAT TTT ATA CCT TTT | 1035 |
| 228 | Asn Ile Asp Glu Val Lys Asn Val Tyr Phe Lys Asn Phe Ile Pro Phe | |
| 229 | 285 290 295 | |
| 230 | | |
| 231 | ATG AAT TCT CTT GGA CTT GTA ACA TCT AAT GGA CTT CCA GAG GTT GAA | 1083 |
| 232 | Met Asn Ser Leu Gly Leu Val Thr Ser Asn Gly Leu Pro Glu Val Glu | |
| 233 | 300 305 310 315 | |
| 234 | | |
| 235 | AAT CTT TCT AAA CGA TAC GAA GAA ATT TAT CTT AAA AAT AAA GAT CTA | 1131 |
| 236 | Asn Leu Ser Lys Arg Tyr Glu Glu Ile Tyr Leu Lys Asn Lys Asp Leu | |
| 237 | 320 325 330 | |
| 238 | | |
| 239 | GAT GCA AGA TTA TTT TTG GAT CAT GAT AAA ACT CTT CAG ACT GAT TCT | 1179 |
| 240 | Asp Ala Arg Leu Phe Leu Asp His Asp Lys Thr Leu Gln Thr Asp Ser | |
| 241 | 335 340 345 | |
| 242 | | |
| 243 | ATA GAC AGT TTT GAA ACA CAG AGA ACA CCA CGA AAA AGT AAC CTT GAT | 1227 |
| 244 | Ile Asp Ser Phe Glu Thr Gln Arg Thr Pro Arg Lys Ser Asn Leu Asp | |
| 245 | 350 355 360 | |
| 246 | | |
| 247 | GAA GAG GTG AAT GTA ATT CCT CCA CAC ACT CCA GTT AGG ACT GTT ATG | 1275 |
| 248 | Glu Glu Val Asn Val Ile Pro Pro His Thr Pro Val Arg Thr Val Met | |
| 249 | 365 370 375 | |
| 250 | | |
| 251 | AAC ACT ATC CAA CAA TTA ATG ATG ATT TTA AAT TCA GCA AGT GAT CAA | 1323 |
| 252 | Asn Thr Ile Gln Gln Leu Met Met Ile Leu Asn Ser Ala Ser Asp Gln | |
| 253 | 380 385 390 395 | |
| 254 | | |
| 255 | CCT TCA GAA AAT CTG ATT TCC TAT TTT AAC AAC TGC ACA GTG AAT CCA | 1371 |
| 256 | Pro Ser Glu Asn Leu Ile Ser Tyr Phe Asn Asn Cys Thr Val Asn Pro | |
| 257 | 400 405 410 | |
| 258 | | |